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(21)Application number : 08-147253 (71)Applicant : SUMITOMO RUBBER IND LTD
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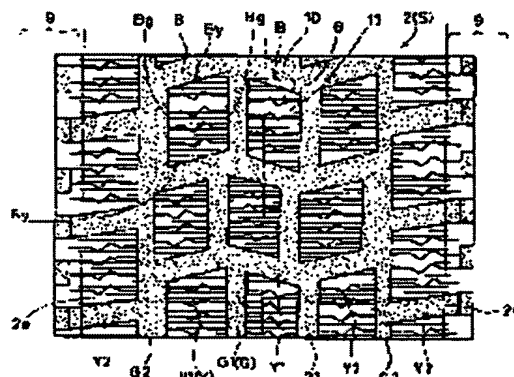
(54) WINTER PASSENGER CAR TIRE

(57)Abstract:

PROBLEM TO BE SOLVED: To improve the performance on ice in a tire the tread part of which has a block pattern having a plurality of blocks by closely forming auxiliary sipings having a specified fine depth at a small pitch interval on each block.

SOLUTION: A plurality of, for example, four vertical grooves G(G1, G2) extended in tire circumferential direction, and a horizontal groove Y consisting of horizontal grooves Y1 for mutually connecting the respective vertical grooves G and horizontal grooves Y2 for connecting the outside vertical grooves G2 to tread edges 2e are arranged on a tread surface S to form a block pattern formed of blocks B. Main sipings 10 having a depth of 60% or more of the block height and auxiliary sipings 11 having a depth smaller than the main siping 10 and arranged with a space in the tire

circumferential direction across the block are formed on each block B. The depth of the auxiliary siping 11 is set to 0.02 times or more and 0.03 times or less the tire circumferential block length, and the ratio of the block length to the tire circumferential pitch interval between the auxiliary sipings 11 is set to 10 or more and 15 or less.



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